

Validation of Space Weather Models at Community Coordinated Modeling Center.

*M. M. Kuznetsova, M. Hesse, A. Pulkkinen, M. Maddox, L. Rastaetter, D. Berrios, Y. Zheng, P. J. MacNeice, J. Shim, A. Taktakishvili, A. Chulaki*

The Community Coordinated Modeling Center (CCMC) is a multi-agency partnership to support the research and developmental work necessary to substantially increase space weather modeling capabilities and to facilitate advanced models deployment in forecasting operations. Space weather models and coupled model chains hosted at the CCMC range from the solar corona to the Earth's upper atmosphere. CCMC has developed a number of real-time modeling systems, as well as a large number of modeling and data products tailored to address the space weather needs of NASA's robotic missions. The CCMC conducts unbiased model testing and validation and evaluates model readiness for operational environment. CCMC has been leading recent comprehensive modeling challenges under GEM, CEDAR and SHINE programs. The presentation will focus on experience in carrying out comprehensive and systematic validation of large sets of space weather models.